

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-078576

(43)Date of publication of application : 23.03.1999

(51)Int.Cl.

B60K 20/02

F16H 59/02

F16H 59/08

(21)Application number : 09-248772

(71)Applicant : FUJI HEAVY IND LTD

(22)Date of filing : 12.09.1997

(72)Inventor : UCHIJIMA NOBUHIRO

## (54) SHIFT ACTION DEVICE FOR TRANSMISSION

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To immediately sense whether a shift-up or a shift-down is allowed or not in the manual shift mode.

**SOLUTION:** When a select lever is tilted to an up-position (+) or a down- position (-) in the manual shift mode, a plunger 28a provided on the first solenoid 28 on the up-shift side or a plunger 29a provided on the second solenoid 29 on the down-shift side is protruded if a shift is allowed, and the plungers 28a, 29a of the solenoids 28, 29 are retreated if the shift is prohibited. When the shift is allowed, a click pin 25b fixed to the select lever is coupled with the plungers 28a, 29a, shift permission is sensed by a resistance feeling at this time. When the shift is prohibited, no resistance feeling is felt, and shift inhibition is sensed by the feeling at that time.

